

Table A2.3. *In planta* growth promotion results.

Functional Group	Isolates	Fresh Shoot Weight (Response Rate)
Phosphorus	HA-022	4.89
Phosphorus	HA-022	23.11
Phosphorus	HA-022	27.62
Phosphorus	HA-022	-6.11
Phosphorus	HA-022	9.4
Phosphorus	HA-022	9
Phosphorus	HA-022	-6.78
Phosphorus	HA-022	15.2
Phosphorus	HA-022	-9.21
Phosphorus	HA-022	-26.17
Auxin.Siderophore	HA-028	14.53
Auxin.Siderophore	HA-028	-6.87
Auxin.Siderophore	HA-028	43.49
Auxin.Siderophore	HA-028	-4.51
Auxin.Siderophore	HA-028	35.07
Auxin.Siderophore	HA-028	32.79
Auxin.Siderophore	HA-028	-19.14
Auxin.Siderophore	HA-028	13.33
Auxin.Siderophore	HA-028	36.53
Auxin.Siderophore	HA-028	-7.01
Siderophore	HA-038	20.99
Siderophore	HA-038	57.66
Siderophore	HA-038	85
Siderophore	HA-038	13.44
Siderophore	HA-038	29.06
Siderophore	HA-038	43.04
Siderophore	HA-038	38.51
Siderophore	HA-038	-0.29
Siderophore	HA-038	20.42
Siderophore	HA-038	31.93
Antagonism	HA-064	42.39
Antagonism	HA-064	30.77
Antagonism	HA-064	71.54
Antagonism	HA-064	-5.98
Antagonism	HA-064	32.67
Antagonism	HA-064	17.29
Antagonism	HA-064	37.65
Antagonism	HA-064	7.31
Antagonism	HA-064	20.01
Antagonism	HA-064	68.85
Antagonism	HA-078	85.94
Antagonism	HA-078	16.27
Antagonism	HA-078	12.59
Antagonism	HA-078	-6.48
Antagonism	HA-078	19.63
Antagonism	HA-078	70.79
Antagonism	HA-078	16.05
Antagonism	HA-078	53.24
Antagonism	HA-078	47.93
Antagonism	HA-078	47
Auxin.Antagonism	HA-089	24.15
Auxin.Antagonism	HA-089	50.76

Auxin.Antagonism	HA-089	20.26
Auxin.Antagonism	HA-089	-57.37
Auxin.Antagonism	HA-089	-13.99
Auxin.Antagonism	HA-089	13.63
Auxin.Antagonism	HA-089	-42.4
Auxin.Antagonism	HA-089	75.22
Auxin.Antagonism	HA-089	-5.98
Auxin.Antagonism	HA-089	-7.51
Antagonism	HA-091	41.9
Antagonism	HA-091	52.99
Antagonism	HA-091	71.43
Antagonism	HA-091	32.28
Antagonism	HA-091	-7.04
Antagonism	HA-091	29.91
Antagonism	HA-091	1.94
Antagonism	HA-091	34.86
Antagonism	HA-091	38.98
Antagonism	HA-091	13.6
Siderophore.Antagonism	HA-129	4.41
Siderophore.Antagonism	HA-129	34.43
Siderophore.Antagonism	HA-129	-5.56
Siderophore.Antagonism	HA-129	4.09
Siderophore.Antagonism	HA-129	14.08
Siderophore.Antagonism	HA-129	53.19
Siderophore.Antagonism	HA-129	21.54
Siderophore.Antagonism	HA-129	-16.07
Siderophore.Antagonism	HA-129	12.78
Siderophore.Antagonism	HA-129	10.85
Auxin.Antagonism	HA-131	4.06
Auxin.Antagonism	HA-131	5.14
Auxin.Antagonism	HA-131	40.37
Auxin.Antagonism	HA-131	34.71
Auxin.Antagonism	HA-131	-0.27
Auxin.Antagonism	HA-131	-15.57
Auxin.Antagonism	HA-131	1.29
Auxin.Antagonism	HA-131	-15.16
Auxin.Antagonism	HA-131	2.28
Auxin.Antagonism	HA-131	-13.79
Siderophore.Antagonism	HA-141	1
Siderophore.Antagonism	HA-141	0.64
Siderophore.Antagonism	HA-141	-3.98
Siderophore.Antagonism	HA-141	-11.24
Siderophore.Antagonism	HA-141	36.02
Siderophore.Antagonism	HA-141	68.65
Siderophore.Antagonism	HA-141	-15.57
Siderophore.Antagonism	HA-141	40.67
Siderophore.Antagonism	HA-141	55.64
Siderophore.Antagonism	HA-141	7.2
Siderophore.Antagonism	CHA0	15.24
Siderophore.Antagonism	CHA0	5.13
Siderophore.Antagonism	CHA0	35.24
Siderophore.Antagonism	CHA0	11.81
Siderophore.Antagonism	CHA0	-2.82
Siderophore.Antagonism	CHA0	53.27
Siderophore.Antagonism	CHA0	85.44

Siderophore.Antagonism	CHA0	8.26
Siderophore.Antagonism	CHA0	22.03
Siderophore.Antagonism	CHA0	-0.8
Auxin	WV-044	42.86
Auxin	WV-044	41.88
Auxin	WV-044	28.57
Auxin	WV-044	4.72
Auxin	WV-044	-13.38
Auxin	WV-044	34.58
Auxin	WV-044	39.81
Auxin	WV-044	38.53
Auxin	WV-044	45.76
Auxin	WV-044	30.4
Auxin.Siderophore	WV-046	10.1
Auxin.Siderophore	WV-046	55.49
Auxin.Siderophore	WV-046	44.44
Auxin.Siderophore	WV-046	59.72
Auxin.Siderophore	WV-046	26.92
Auxin.Siderophore	WV-046	-7.76
Auxin.Siderophore	WV-046	11.4
Auxin.Siderophore	WV-046	20
Auxin.Siderophore	WV-046	4.22
Auxin.Siderophore	WV-046	44.8
Siderophore	WV-059	12.21
Siderophore	WV-059	57.35
Siderophore	WV-059	26.66
Siderophore	WV-059	21.17
Siderophore	WV-059	33.16
Siderophore	WV-059	52.86
Siderophore	WV-059	48.41
Siderophore	WV-059	33.21
Siderophore	WV-059	52.61
Siderophore	WV-059	51.92
Auxin	WV-094	47.62
Auxin	WV-094	36.75
Auxin	WV-094	15.24
Auxin	WV-094	31.5
Auxin	WV-094	15.49
Auxin	WV-094	23.36
Auxin	WV-094	61.17
Auxin	WV-094	38.53
Auxin	WV-094	16.95
Auxin	WV-094	41.6
Phosphorus	WV-104	-6.95
Phosphorus	WV-104	18.88
Phosphorus	WV-104	19.82
Phosphorus	WV-104	-4.18
Phosphorus	WV-104	-5.99
Phosphorus	WV-104	-10.94
Phosphorus	WV-104	11.56
Phosphorus	WV-104	-5.64
Phosphorus	WV-104	-1.21
Phosphorus	WV-104	10.32
Siderophore	WV-109	31.43
Siderophore	WV-109	31.62

Siderophore	WV-109	69.52
Siderophore	WV-109	48.03
Siderophore	WV-109	23.94
Siderophore	WV-109	37.38
Siderophore	WV-109	29.13
Siderophore	WV-109	44.95
Siderophore	WV-109	33.9
Siderophore	WV-109	12.8
Phosphorus	WV-121	17.24
Phosphorus	WV-121	-11.16
Phosphorus	WV-121	1.05
Phosphorus	WV-121	0.9
Phosphorus	WV-121	-7.44
Phosphorus	WV-121	47.42
Phosphorus	WV-121	-11.2
Phosphorus	WV-121	13.19
Phosphorus	WV-121	-17.15
Phosphorus	WV-121	-9.2
Auxin.Siderophore	WV-162	18.27
Auxin.Siderophore	WV-162	27.17
Auxin.Siderophore	WV-162	-33.92
Auxin.Siderophore	WV-162	50.71
Auxin.Siderophore	WV-162	40.87
Auxin.Siderophore	WV-162	-4.08
Auxin.Siderophore	WV-162	40.41
Auxin.Siderophore	WV-162	42.45
Auxin.Siderophore	WV-162	26.16
Auxin.Siderophore	WV-162	17.19
Auxin.Antagonism	WV-182	8.82
Auxin.Antagonism	WV-182	27.87
Auxin.Antagonism	WV-182	-18.52
Auxin.Antagonism	WV-182	-16.96
Auxin.Antagonism	WV-182	5.63
Auxin.Antagonism	WV-182	29.79
Auxin.Antagonism	WV-182	3.85
Auxin.Antagonism	WV-182	-10.12
Auxin.Antagonism	WV-182	24.06
Auxin.Antagonism	WV-182	-5.43
Auxin	WV-195	9.56
Auxin	WV-195	45.08
Auxin	WV-195	-4.32
Auxin	WV-195	-15.2
Auxin	WV-195	19.72
Auxin	WV-195	94.68
Auxin	WV-195	19.23
Auxin	WV-195	8.33
Auxin	WV-195	8.27
Auxin	WV-195	27.91

Fresh Root Weight (Response Rate)	Family	Host	OTU
12.07	Pseudomonadaceae	H7996	High-frequency
6.8	Pseudomonadaceae	H7996	High-frequency
11.22	Pseudomonadaceae	H7996	High-frequency
-10.46	Pseudomonadaceae	H7996	High-frequency
34.04	Pseudomonadaceae	H7996	High-frequency
1.54	Pseudomonadaceae	H7996	High-frequency
-27.41	Pseudomonadaceae	H7996	High-frequency
-4.17	Pseudomonadaceae	H7996	High-frequency
-1.24	Pseudomonadaceae	H7996	High-frequency
-14.68	Pseudomonadaceae	H7996	High-frequency
8.62	Enterobacteriaceae	H7996	High-frequency
-10	Enterobacteriaceae	H7996	High-frequency
69.05	Enterobacteriaceae	H7996	High-frequency
33.33	Enterobacteriaceae	H7996	High-frequency
39.47	Enterobacteriaceae	H7996	High-frequency
24.44	Enterobacteriaceae	H7996	High-frequency
-25.33	Enterobacteriaceae	H7996	High-frequency
2.5	Enterobacteriaceae	H7996	High-frequency
59.57	Enterobacteriaceae	H7996	High-frequency
-17.54	Enterobacteriaceae	H7996	High-frequency
26.36	Pseudomonadaceae	H7996	H7996 Exclusive
36.88	Pseudomonadaceae	H7996	H7996 Exclusive
67.1	Pseudomonadaceae	H7996	H7996 Exclusive
1.62	Pseudomonadaceae	H7996	H7996 Exclusive
29.12	Pseudomonadaceae	H7996	H7996 Exclusive
34.32	Pseudomonadaceae	H7996	H7996 Exclusive
15.83	Pseudomonadaceae	H7996	H7996 Exclusive
-2.67	Pseudomonadaceae	H7996	H7996 Exclusive
26.06	Pseudomonadaceae	H7996	H7996 Exclusive
23.51	Pseudomonadaceae	H7996	H7996 Exclusive
38.42	Bacillaceae	H7996	H7996 Exclusive
38.42	Bacillaceae	H7996	H7996 Exclusive
78.06	Bacillaceae	H7996	H7996 Exclusive
-4	Bacillaceae	H7996	H7996 Exclusive
35	Bacillaceae	H7996	H7996 Exclusive
17.3	Bacillaceae	H7996	H7996 Exclusive
30.53	Bacillaceae	H7996	H7996 Exclusive
-2.86	Bacillaceae	H7996	H7996 Exclusive
6.11	Bacillaceae	H7996	H7996 Exclusive
52.43	Bacillaceae	H7996	H7996 Exclusive
8.65	Bacillaceae	H7996	H7996 Exclusive
13.71	Bacillaceae	H7996	H7996 Exclusive
13.4	Bacillaceae	H7996	H7996 Exclusive
59.75	Bacillaceae	H7996	H7996 Exclusive
8.77	Bacillaceae	H7996	H7996 Exclusive
-20.52	Bacillaceae	H7996	H7996 Exclusive
22.44	Bacillaceae	H7996	H7996 Exclusive
21.42	Bacillaceae	H7996	H7996 Exclusive
13.9	Bacillaceae	H7996	H7996 Exclusive
66.45	Bacillaceae	H7996	H7996 Exclusive
-1.07	Rhizobiaceae	H7996	H7996 Exclusive
25.65	Rhizobiaceae	H7996	H7996 Exclusive

3.03	Rhizobiaceae	H7996	H7996 Exclusive
-24.24	Rhizobiaceae	H7996	H7996 Exclusive
-5.14	Rhizobiaceae	H7996	H7996 Exclusive
11.76	Rhizobiaceae	H7996	H7996 Exclusive
-12.02	Rhizobiaceae	H7996	H7996 Exclusive
13.15	Rhizobiaceae	H7996	H7996 Exclusive
18.67	Rhizobiaceae	H7996	H7996 Exclusive
-11.18	Rhizobiaceae	H7996	H7996 Exclusive
29.63	Xanthomonadaceae	H7996	High-frequency
30.77	Xanthomonadaceae	H7996	High-frequency
50	Xanthomonadaceae	H7996	High-frequency
15.63	Xanthomonadaceae	H7996	High-frequency
6.25	Xanthomonadaceae	H7996	High-frequency
9.68	Xanthomonadaceae	H7996	High-frequency
17.39	Xanthomonadaceae	H7996	High-frequency
52.17	Xanthomonadaceae	H7996	High-frequency
35.29	Xanthomonadaceae	H7996	High-frequency
5.56	Xanthomonadaceae	H7996	High-frequency
21.21	Bacillaceae	H7996	H7996 Exclusive
28	Bacillaceae	H7996	H7996 Exclusive
-4.65	Bacillaceae	H7996	H7996 Exclusive
-4.44	Bacillaceae	H7996	H7996 Exclusive
21.21	Bacillaceae	H7996	H7996 Exclusive
29.63	Bacillaceae	H7996	H7996 Exclusive
-17.5	Bacillaceae	H7996	H7996 Exclusive
-18.92	Bacillaceae	H7996	H7996 Exclusive
-2.78	Bacillaceae	H7996	H7996 Exclusive
19.23	Bacillaceae	H7996	H7996 Exclusive
3.79	Micrococcaceae	H7996	H7996 Exclusive
28.3	Micrococcaceae	H7996	H7996 Exclusive
3.11	Micrococcaceae	H7996	H7996 Exclusive
30	Micrococcaceae	H7996	H7996 Exclusive
25.71	Micrococcaceae	H7996	H7996 Exclusive
-18.96	Micrococcaceae	H7996	H7996 Exclusive
-3.1	Micrococcaceae	H7996	H7996 Exclusive
-26.22	Micrococcaceae	H7996	H7996 Exclusive
-1.3	Micrococcaceae	H7996	H7996 Exclusive
-13.13	Micrococcaceae	H7996	H7996 Exclusive
43.08	Pseudomonadaceae	H7996	High-frequency
18.08	Pseudomonadaceae	H7996	High-frequency
-7.62	Pseudomonadaceae	H7996	High-frequency
16.9	Pseudomonadaceae	H7996	High-frequency
9.08	Pseudomonadaceae	H7996	High-frequency
12.38	Pseudomonadaceae	H7996	High-frequency
-7.21	Pseudomonadaceae	H7996	High-frequency
-26.42	Pseudomonadaceae	H7996	High-frequency
9.58	Pseudomonadaceae	H7996	High-frequency
11.08	Pseudomonadaceae	H7996	High-frequency
18.52	Pseudomonadaceae	PGPB	PGPB
38.46	Pseudomonadaceae	PGPB	PGPB
-16.67	Pseudomonadaceae	PGPB	PGPB
6.25	Pseudomonadaceae	PGPB	PGPB
-21.88	Pseudomonadaceae	PGPB	PGPB
25.81	Pseudomonadaceae	PGPB	PGPB
47.83	Pseudomonadaceae	PGPB	PGPB

17.39	Pseudomonadaceae	PGPB	PGPB
-17.65	Pseudomonadaceae	PGPB	PGPB
0	Pseudomonadaceae	PGPB	PGPB
14.81	Pseudomonadaceae	WV	High-frequency
42.31	Pseudomonadaceae	WV	High-frequency
16.67	Pseudomonadaceae	WV	High-frequency
0	Pseudomonadaceae	WV	High-frequency
3.13	Pseudomonadaceae	WV	High-frequency
-6.45	Pseudomonadaceae	WV	High-frequency
73.91	Pseudomonadaceae	WV	High-frequency
82.61	Pseudomonadaceae	WV	High-frequency
5.88	Pseudomonadaceae	WV	High-frequency
0	Pseudomonadaceae	WV	High-frequency
27.59	Flavobacteriaceae	WV	WV Exclusive
40.43	Flavobacteriaceae	WV	WV Exclusive
13.11	Flavobacteriaceae	WV	WV Exclusive
76.36	Flavobacteriaceae	WV	WV Exclusive
16.07	Flavobacteriaceae	WV	WV Exclusive
4.48	Flavobacteriaceae	WV	WV Exclusive
15.52	Flavobacteriaceae	WV	WV Exclusive
5.41	Flavobacteriaceae	WV	WV Exclusive
0	Flavobacteriaceae	WV	WV Exclusive
25	Flavobacteriaceae	WV	WV Exclusive
-5.23	Pseudomonadaceae	WV	High-frequency
29.07	Pseudomonadaceae	WV	High-frequency
6.14	Pseudomonadaceae	WV	High-frequency
9.51	Pseudomonadaceae	WV	High-frequency
22.37	Pseudomonadaceae	WV	High-frequency
24.66	Pseudomonadaceae	WV	High-frequency
25.07	Pseudomonadaceae	WV	High-frequency
28.58	Pseudomonadaceae	WV	High-frequency
25.46	Pseudomonadaceae	WV	High-frequency
39.56	Pseudomonadaceae	WV	High-frequency
14.81	Enterobacteriaceae	WV	High-frequency
30.77	Enterobacteriaceae	WV	High-frequency
-6.67	Enterobacteriaceae	WV	High-frequency
-6.25	Enterobacteriaceae	WV	High-frequency
31.25	Enterobacteriaceae	WV	High-frequency
22.58	Enterobacteriaceae	WV	High-frequency
78.26	Enterobacteriaceae	WV	High-frequency
60.87	Enterobacteriaceae	WV	High-frequency
-2.94	Enterobacteriaceae	WV	High-frequency
25	Enterobacteriaceae	WV	High-frequency
-6.34	Bacillaceae	WV	High-frequency
19.26	Bacillaceae	WV	High-frequency
4.27	Bacillaceae	WV	High-frequency
3.32	Bacillaceae	WV	High-frequency
17.25	Bacillaceae	WV	High-frequency
5.71	Bacillaceae	WV	High-frequency
-13.23	Bacillaceae	WV	High-frequency
-5.87	Bacillaceae	WV	High-frequency
-10.88	Bacillaceae	WV	High-frequency
15.73	Bacillaceae	WV	High-frequency
14.81	Rhizobiaceae	WV	WV Exclusive
34.62	Rhizobiaceae	WV	WV Exclusive

93.33	Rhizobiaceae	WV	WV Exclusive
21.88	Rhizobiaceae	WV	WV Exclusive
0	Rhizobiaceae	WV	WV Exclusive
19.35	Rhizobiaceae	WV	WV Exclusive
8.7	Rhizobiaceae	WV	WV Exclusive
47.83	Rhizobiaceae	WV	WV Exclusive
29.41	Rhizobiaceae	WV	WV Exclusive
11.11	Rhizobiaceae	WV	WV Exclusive
-3.7	Microbacteriaceae	WV	WV Exclusive
0	Microbacteriaceae	WV	WV Exclusive
-6.67	Microbacteriaceae	WV	WV Exclusive
-3.13	Microbacteriaceae	WV	WV Exclusive
-3.13	Microbacteriaceae	WV	WV Exclusive
51.61	Microbacteriaceae	WV	WV Exclusive
21.74	Microbacteriaceae	WV	WV Exclusive
47.83	Microbacteriaceae	WV	WV Exclusive
-11.76	Microbacteriaceae	WV	WV Exclusive
-11.11	Microbacteriaceae	WV	WV Exclusive
35.52	Pseudomonadaceae	WV	High-frequency
58.3	Pseudomonadaceae	WV	High-frequency
-32.46	Pseudomonadaceae	WV	High-frequency
49.09	Pseudomonadaceae	WV	High-frequency
34.29	Pseudomonadaceae	WV	High-frequency
15.52	Pseudomonadaceae	WV	High-frequency
30.34	Pseudomonadaceae	WV	High-frequency
18.65	Pseudomonadaceae	WV	High-frequency
15.65	Pseudomonadaceae	WV	High-frequency
15.31	Pseudomonadaceae	WV	High-frequency
7.27	Pseudomonadaceae	WV	WV Exclusive
68	Pseudomonadaceae	WV	WV Exclusive
-3.72	Pseudomonadaceae	WV	WV Exclusive
-31.11	Pseudomonadaceae	WV	WV Exclusive
13.33	Pseudomonadaceae	WV	WV Exclusive
28.15	Pseudomonadaceae	WV	WV Exclusive
-12.5	Pseudomonadaceae	WV	WV Exclusive
-22.7	Pseudomonadaceae	WV	WV Exclusive
5	Pseudomonadaceae	WV	WV Exclusive
30	Pseudomonadaceae	WV	WV Exclusive
24.24	Xanthomonadaceae	WV	WV Exclusive
44	Xanthomonadaceae	WV	WV Exclusive
-6.98	Xanthomonadaceae	WV	WV Exclusive
-8.89	Xanthomonadaceae	WV	WV Exclusive
24.24	Xanthomonadaceae	WV	WV Exclusive
70.37	Xanthomonadaceae	WV	WV Exclusive
27.5	Xanthomonadaceae	WV	WV Exclusive
10.81	Xanthomonadaceae	WV	WV Exclusive
2.78	Xanthomonadaceae	WV	WV Exclusive
73.08	Xanthomonadaceae	WV	WV Exclusive